

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/015,881
Attorney Docket No. Q67742

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AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claim 1 (currently amended): A mobile communications terminal comprising:

a voice pattern/telephone directory registration means for registering voice patterns with a plurality of directories, wherein each directory of said plurality of directories is registered with a corresponding voice pattern, each directory including a plurality of contact data types, the plurality of contact data types comprising telephone number contact data and at least one other type of contact data in which telephone directories, each of which includes various types of data to be used for starting communication with a target of communication, are registered and voice patterns corresponding to the telephone directories are registered;

a voice input means for receiving voice of a user designating a target of communication and thereby outputting a voice signal;

a speech recognition means for analyzing and recognizing the voice signal outputted by the voice input means and thereby obtaining voice data, comparing the obtained voice data with the voice patterns that have been registered in the voice pattern/telephone directory registration means, and thereby searching for and retrieving a registered voice pattern that matches or nearly matches the obtained voice data obtained from a user; and

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/015,881
Attorney Docket No. Q67742

a memory search processing means for ~~calling up~~selecting a ~~telephone directory that has been registered in the voice pattern/telephone directory registration means corresponding that~~
corresponds to the voice pattern retrieved by the speech recognition means.

Claim 2 (currently amended): A mobile communications terminal as claimed in claim 1,
wherein ~~the telephone the plurality of contact data types directory at least includes a~~
~~telephone comprises telephone number contact data, an electronic mail address contact data and a~~
URL (Uniform Resource Locator) contact data.

Claim 3 (currently amended): A mobile communications terminal as claimed in claim 1,
further comprising a data type designation means for ~~letting the user designate~~ designating the
type of contact data to be ~~called up~~ used for communication from the various types of data of the
~~telephone directory based on a user input of a contact data type.~~

Claim 4 (currently amended): A mobile communications terminal as claimed in claim 1,
wherein the memory search processing means automatically designates the type of contact data
to be ~~called up from the various types of data of the telephone used for communication directory~~
based on an application activation status of the mobile communications terminal.

AMENDMENT UNDER 37 C.F.R. § 1.111
 U.S. Application No. 10/015,881
 Attorney Docket No. Q67742

Claim 5 (currently amended): A mobile communications terminal as claimed in claim 1, further comprising a display means for displaying contact data of the telephone directory called up which is selected by the memory search processing means.

Claim 6 (currently amended): A mobile communications terminal as claimed in claim 1, further comprising a communication starting means for automatically starting communication with the target designated by the user by use of data of the telephone directory called up a contact corresponding to the directory which is selected by the memory search processing means.

Claim 7 (currently amended): A mobile communications terminal comprising:
 a voice pattern ~~data~~ registration means for registering voice patterns with a plurality of contact data, said plurality of contact data comprising a plurality of types of contact data, wherein for each type of contact data, a voice pattern is registered with a corresponding contact data item independent of other contact data types in which various types of data to be used for starting communication with targets of communication are registered and voice patterns corresponding to each data are registered with regard to each data type independently;

a data type designation means for designating the type of contact data to be called up selected for communication;

AMENDMENT UNDER 37 C.F.R. § 1.111
 U.S. Application No. 10/015,881
 Attorney Docket No. Q67742

a voice input means for receiving voice of a user designating a target of communication and thereby outputting a voice signal;

a speech recognition means for analyzing and recognizing the voice signal outputted by the voice input means and thereby obtaining voice data, comparing the obtained voice data with voice patterns that have been registered in the voice pattern/ data registration means with regard to the data type designated by the data type designation means, and thereby searching for and retrieving a voice pattern that matches or nearly matches the obtained voice data obtained from a user; and

a memory search processing means for ~~culling up data~~ selecting a contact data item of the type designated by the data type designation means ~~that has been registered in the voice pattern/ data registration means corresponding~~ that corresponds to the voice pattern retrieved by the speech recognition means.

Claim 8 (currently amended): A mobile communications terminal as claimed in claim 7, wherein the ~~various plurality of contact data types of data at least includes~~ comprises a telephone number contact data, a electronic mail address contact data and a URL (Uniform Resource Locator) contact data.

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/015,881
Attorney Docket No. Q67742

Claim 9 (currently amended): A mobile communications terminal as claimed in claim 7,
wherein the data type designation means ~~lets the user designate~~ the type of contact data to be
called up based on a user input of contact data type.

Claim 10 (currently amended): A mobile communications terminal as claimed in claim 7,
wherein the data type designation means automatically designates the type of contact data to be
called up based on an application activation status of the mobile communications terminal.

Claim 11 (currently amended): A mobile communications terminal as claimed in claim 7,
further comprising a display means for displaying the contact data item called up which is
selected by the memory search processing means.

Claim 12 (currently amended): A mobile communications terminal as claimed in claim 7,
further comprising a communication starting means for automatically starting communication
with a contact corresponding to the contact data item which is selected ~~the target designated by~~
~~the user by use of the data called up by the memory search processing means.~~

Claim 13 (currently amended): A speech recognition method for a mobile
communications terminal, comprising the steps of:

AMENDMENT UNDER 37 C.F.R. § 1.111
 U.S. Application No. 10/015,881
 Attorney Docket No. Q67742

~~a voice pattern/telephone directory registration step in which telephone directories, each of which includes various types of data to be used for starting communication with a target of communication, are registered and voice patterns corresponding to the telephone directories are registered~~
a plurality of directories are registered with voice patterns, wherein each directory of said plurality of directories is registered with a corresponding voice pattern, each directory including a plurality of contact data types, the plurality of contact data types comprising telephone number contact data and at least one other type of contact data;

~~a voice input step in which voice of a user designating a target of communication is received and thereby a voice signal is generated;~~

~~a speech recognition step in which the voice signal generated in the voice input step is analyzed and recognized and thereby voice data is obtained, the obtained voice data is compared with the voice patterns that have been registered in the voice pattern/telephone directory registration step, and thereby a registered voice pattern is retrieved that matches or nearly matches the obtained voice data~~
is searched for and retrieved
obtained from a user; and

~~a memory search step in which a telephone directory is selected that has been registered in the voice pattern/telephone directory registration step corresponding that corresponds to the voice pattern retrieved in the speech recognition step~~
is called up.

Claim 14 (currently amended): A speech recognition method for a mobile communications terminal as claimed in claim 13, wherein the telephone directory ~~at least~~

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/015,881
Attorney Docket No. Q67742

~~includes plurality of contact data types comprises a telephone number contact data, a electronic~~
mail address contact data and a URL (Uniform Resource Locator) contact data.

Claim 15 (currently amended): A speech recognition method for a mobile communications terminal as claimed in claim 13, further comprising a data type designation step in which the type of contact data to be called up ~~from the various types of data of the telephone directory is designated by the user~~ used for communication is designated based on a user input of a contact data type.

Claim 16 (currently amended): A speech recognition method for a mobile communications terminal as claimed in claim 13, wherein in the memory search step, the type of contact data to be called up ~~from the various types of data of the telephone directory~~ used for communication is automatically designated based on an application activation status of the mobile communications terminal.

Claim 17 (currently amended): A speech recognition method for a mobile communications terminal as claimed in claim 13, further comprising a display step in which contact data of the telephone directory ~~called up~~ which is selected in the memory search step is displayed.

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/015,881
Attorney Docket No. Q67742

Claim 18 (currently amended): A speech recognition method for a mobile communications terminal as claimed in claim 13, further comprising a communication starting step in which communication with ~~the target designated by the user~~ a contact corresponding to the directory which is selected in the memory search processing step is automatically started by ~~use of data of the telephone directory called up in the memory search step.~~

Claim 19 (currently amended): A speech recognition method for a mobile communications terminal, comprising the steps of:

~~a voice pattern/data registration step in which various types of data to be used for starting communication with targets of communication are registered and voice patterns corresponding to each data are registered with regard to each data type independently~~ voice patterns are registered with a plurality of contact data, said contact data comprising a plurality of contact data types, wherein for each type of contact data, a voice pattern is registered with a corresponding contact data item independent of other contact data types;

~~a data type designation step in which the type of data to be called up is selected for communication~~ is designated;

~~a voice input step in which voice of a user designating a target of communication is received and thereby a voice signal is generated;~~

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/015,881
Attorney Docket No. Q67742

a speech recognition step in which ~~the voice signal generated in the voice input step is analyzed and recognized and thereby voice data is obtained, the obtained voice data is compared with voice patterns that have been registered in the voice pattern/ data registration step with regard to the data type designated in the data type designation step, and thereby a voice pattern that matches or nearly matches the obtained voice data~~ obtained from a user is searched for and retrieved; and

a memory search step in which a contact data item ~~data~~ of the type designated in the data type designation step ~~that has been registered in the voice pattern/ data registration step corresponding that corresponds to the voice pattern retrieved in the speech recognition step is called up~~ selected.

Claim 20 (currently amended): A speech recognition method for a mobile communications terminal as claimed in claim 19, wherein the ~~various plurality of contact data types of data at least includes~~ comprises a telephone number contact data, a electronic mail address contact data and a URL (Uniform Resource Locator) contact data.

Claim 21 (currently amended): A speech recognition method for a mobile communications terminal as claimed in claim 19, wherein the type of contact data to be called up is designated ~~by the user based on a user input of contact data type~~ in the data type designation step.

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/015,881
Attorney Docket No. Q67742

Claim 22 (currently amended): A speech recognition method for a mobile communications terminal as claimed in claim 19, wherein the type of contact data to be called up is automatically designated based on an application activation status of the mobile communications terminal in the data type designation step.

Claim 23 (currently amended): A speech recognition method for a mobile communications terminal as claimed in claim 19, further comprising a display step in which the contact data item which is selected called up in the memory search step is displayed.

Claim 24 (currently amended): A speech recognition method for a mobile communications terminal as claimed in claim 19, further comprising a communication starting step in which communication with a contact corresponding to the contact data item which is selected in the memory search step the target designated by the user is automatically started by use of the data called up in the memory search step.

Claim 25 (currently amended): A machine-readable ~~record~~ medium storing a program for instructing a ~~computer, an MPU (MicroProcessor Unit), etc.~~ processor of a mobile

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/015,881
Attorney Docket No. Q67742

communications terminal to execute a speech recognition process, wherein the speech recognition process comprises the steps of:

a voice pattern/telephone directory registration step in which ~~telephone directories, each of which includes various types of data to be used for starting communication with a target of communication, are registered and voice patterns corresponding to the telephone directories are registered~~ a plurality of directories are registered with voice patterns, wherein each directory of said plurality of directories is registered with a corresponding voice pattern, each directory including a plurality of contact data types, the plurality of contact data types comprising telephone number contact data and at least one other type of contact data;

~~a voice input step in which voice of a user designating a target of communication is received and thereby a voice signal is generated;~~

~~a speech recognition step in which the voice signal generated in the voice input step is analyzed and recognized and thereby voice data is obtained, the obtained voice data is compared with the voice patterns that have been registered in the voice pattern/telephone directory registration step, and thereby a registered voice pattern is retrieved that matches or nearly matches the obtained voice data is searched for and retrieved~~ obtained from a user; and

~~a memory search step in which a telephone directory is selected that has been registered in the voice pattern/telephone directory registration step corresponding, that corresponds to to the voice pattern retrieved in the speech recognition step is called up.~~

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/015,881
Attorney Docket No. Q67742

Claim 26 (currently amended): A machine-readable ~~record~~ medium as claimed in claim 25, wherein the ~~telephone directory at least includes~~ plurality of contact data types comprises a telephone number contact data, ~~an~~ electronic mail address contact data and ~~a~~ URL (Uniform Resource Locator) contact data.

Claim 27 (currently amended): A machine-readable ~~record~~ medium as claimed in claim 25, wherein the speech recognition process further comprises a data type designation step in which the type of contact data to be called up from the various types of data of the telephone directory ~~is designated by the user~~ used for communication is designated based on a user input of a contact data type.

Claim 28 (currently amended): A machine-readable ~~record~~ medium as claimed in claim 25, wherein in the memory search step, the type of contact data to be called up from the various types of data of the telephone directory ~~used for communication~~ is automatically designated based on an application activation status of the mobile communications terminal.

Claim 29 (currently amended): A machine-readable ~~record~~ medium as claimed in claim 25, wherein the speech recognition process further comprises a display step in which contact data of the telephone directory ~~called up~~ which is selected in the memory search step is displayed.

AMENDMENT UNDER 37 C.F.R. § 1.111
 U.S. Application No. 10/015,881
 Attorney Docket No. Q67742

Claim 30 (currently amended): A machine-readable ~~record~~-medium as claimed in claim 25, wherein the speech recognition process further comprises a communication starting step in which communication with ~~the target designated by the user~~ a contact corresponding to the directory which is selected in the memory search processing step is automatically started ~~by use of data of the telephone directory called up in the memory search step.~~

Claim 31 (currently amended): A machine-readable ~~record~~-medium storing a program for instructing a computer, an MPU (MicroProcessor Unit), ~~etc.~~ processor of a mobile communications terminal to execute a speech recognition process, wherein the voice recognition process comprises the steps of:

~~a voice pattern/data registration step in which various types of data to be used for starting communication with targets of communication are registered and voice patterns corresponding to each data are registered with regard to each data type independently~~ voice patterns are registered with a plurality of contact data, said contact data comprising a plurality of contact data types, wherein for each type of contact data, a voice pattern is registered with a corresponding contact data item independent of other contact data types;

~~a data type designation step in which the type of~~ contact data to be called up ~~selected for communication~~ is designated;

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/015,881
Attorney Docket No. Q67742

~~a voice input step in which voice of a user designating a target of communication is received and thereby a voice signal is generated;~~

~~a speech recognition step in which the voice signal generated in the voice input step is analyzed and recognized and thereby voice data is obtained; the obtained voice data is compared with voice patterns that have been registered in the voice pattern/ data registration step with regard to the data type designated in the data type designation step; and thereby a voice pattern that matches or nearly matches the obtained voice data obtained from a user is searched for and retrieved; and~~

~~a memory search step in which data a contact data item of the type designated in the data type designation step that has been registered in the voice pattern/ data registration step corresponding that corresponds to the voice pattern retrieved in the speech recognition step is called up/selected.~~

Claim 32 (currently amended): A machine-readable record-medium as claimed in claim 31, wherein the ~~various plurality of contact data types of data at least includes a~~ comprises telephone number contact data, ~~a~~ electronic mail address contact data and a URL (Uniform Resource Locator) contact data.

AMENDMENT UNDER 37 C.F.R. § 1.111
U.S. Application No. 10/015,881
Attorney Docket No. Q67742

Claim 33 (currently amended): A machine-readable ~~record~~-medium as claimed in claim 31, wherein the type of contact data to be called up is ~~designated by the user based on a user input of contact data type~~ in the data type designation step.

Claim 34 (currently amended): A machine-readable ~~record~~-medium as claimed in claim 31, wherein the type of contact data to be called up is automatically designated based on an application activation status of the mobile communications terminal in the data type designation step.

Claim 35 (currently amended): A machine-readable ~~record~~-medium as claimed in claim 31, wherein the speech recognition process further comprises a display step in which the contact data item which is selected ~~called up~~ in the memory search step is displayed.

Claim 36 (currently amended): A machine-readable ~~record~~-medium as claimed in claim 31, wherein the speech recognition process further comprises a communication starting step in which communication with a contact corresponding to the contact data item which is selected in the memory search step ~~the target designated by the user is automatically started by use of the data called up in the memory search step~~.

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